Index of Claims



Application/Control No.

10/736,640

Examiner

A R. Salimi

Applicant(s)/Patent under Reexamination

DIAMOND, DON J.

Art Unit

1648

Rejected Allowed

(Through numeral) Cancelled Restricted

Non-Elected N Interference

Appeal Α 0 Objected

|              |          |          | -            |  |  |          |          | ,  |  |              |      |             |          |                 |        |          |              | ,            |  | _ |
|--------------|----------|----------|--------------|--|--|----------|----------|--|--|--------------|------|-------------|----------|-----------------|--------|----------|--------------|--------------|--|---|
| Cla          | Date     |          |              |  |  |          |          | Claim  |  |              | Date |             |          |                 |        |          |              |              |  |   |
| Final        | Original | 8/3/1    |              |  |  |          |          |  |  |              |      | Final       | Original |                 |        |          |              |              |  |   |
| <u> </u>     | 1        | 7        |              | H  | _  |          |          | _  |  | _            |      |             | 51       |                 | ┪      |          |              |              |  | Г |
|              | 2        | 1        |              | $\vdash$   |  |          | _        |  |  | _            |      |             | 52       |                 |        |          |              |              |  | Γ |
|              | 3        | H        |              | -  | _  |          | _        |  |  |              |      |             | 53       | $\Box$          | 寸      |          |              |              |  | Γ |
| -            | 4        | H        |              | $\vdash$   |  |          |          |  |  | _            |      |             | 54       |                 | ヿ      |          |              |              |  | Γ |
| _            | 5        | H        | Г            |  |  |          |          |  | _  |              |      |             | 55       |                 | ヿ      |          |              |              |  | Γ |
|              | 6        | 17       |              |  |  |          |          |  |  |              |      |             | 56       |                 | $\neg$ |          |              |              |  | Γ |
|              | 7        | T        |              |  |  |          |          |  |  |              |      |             | 57       |                 | $\neg$ |          |              |              |  | Γ |
|              | 8        | 17       | Π            |  |  |          |          |  |  |              |      |             | 58       |                 |        |          |              |              |  | Γ |
|              | 9        | 17       | Γ            |  |  |          |          |  |  |              |      |             | 59       |                 |        |          |              |              |  |   |
|              | 10       |          |              |  |  |          |          |  |  |              |      |             | 60       |                 |        |          |              |              |  | Ĺ |
|              | 11       | I        |              |  | П  |          |          |  |  |              |      |             | 61       |                 |        |          |              |              |  | L |
|              | 12       | V        |              |  |  |          |          |  |  |              |      |             | 62_      |                 |        |          |              |              |  | L |
|              | 13       |          |              |  |  | L        |          |  |  |              |      |             | 63       |                 |        |          |              |              | L  | L |
|              | 14       |          |              |  |  |          |          |  |  |              |      |             | 64       |                 | _      |          |              |              | L  | L |
|              | 15       |          |              |  |  |          |          |  |  |              |      |             | 65       |                 |        |          |              |              |  | L |
|              | 16       |          |              | L  |  |          | <u> </u> |  |  |              |      |             | 66_      | Щ               |        |          |              | _            |  | L |
|              | 17       |          |              | Ŀ  |  | <u> </u> |          |  |  |              |      |             | 67       | Ш               | _      |          | _            | _            |  | Ļ |
|              | 18       | _        |              |  | L  | L_       |          |  |  |              |      |             | 68       |                 |        |          |              |              |  | L |
|              | 19       | <u> </u> |              |  |  |          |          |  |  | _            |      |             | 69       |                 |        |          |              | _            |  | L |
|              | 20       | <u> </u> |              |  |  | _        |          |  | _  |              |      |             | 70       |                 | _      |          |              | <u> </u>     | lacksquare                                       | L |
|              | 21       | _        | <u> </u>     |  |  |          |          |  | _  | _            |      |             | 71       | Ш               | _      |          |              |              | <u> </u>   | Ļ |
|              | 22       | _        |              | L  | _  |          |          | L_   | L_   |              |      | L           | 72       |                 |        |          |              |              | <u> </u>   | Ļ |
|              | 23       | <u> </u> | ┖            |  | <u> </u>   |          |          |  | <u> </u>   |              |      | <u> </u>    | 73       |                 |        |          | _            |              | L  | L |
|              | 24       | <u> </u> | L            |  |  |          | _        | _  |  | _            |      |             | 74       | Ш               |        |          | <u> </u>     |              | _  | Ļ |
|              | 25       | <u> </u> | _            |  | _  | <u> </u> | _        | <u> </u>   | _  |              |      |             | 75       |                 |        | _        |              | <u> </u>     | ┝  | ╀ |
|              | 26       | ļ        | <b> </b> _   | _  | Ľ  | <u> </u> | ļ        | <u> </u>   |  |              |      | <u> </u>    | 76       |                 | _      |          | <u> </u>     | _            | _  | ╀ |
|              | 27       | _        | ļ            | _  | _  | _        |          | ļ  |  | <u> </u>     |      |             | 77       |                 | _      |          | _            |              | ⊢  | ╀ |
|              | 28       | ↓_       | _            | _  | <u> </u>   | _        | <u> </u> | <u> </u>   | <u> </u>   |              |      |             | 78       | H               |        |          | <u> </u>     | -            | ⊢  | ╀ |
| <u></u>      | 29       | <b>├</b> |              | _  | _  | <u> </u> | _        | <u> </u>   | <u> </u>   |              |      |             | 79       |                 |        |          | ├            | ├-           | <del> </del>                                     | ╀ |
|              | 30       | ļ.,      | -            | <u> </u>   | ┡  | <u> </u> | -        | _  | _  | _            | l    |             | 80       | Н               |        |          | ⊢            |              | ├-   | ╀ |
| <u> </u>     | 31       | -        | ⊢            | ⊢  | ⊢  |          | _        |  | _  | -            |      |             | 81<br>82 | Н               |        |          | -            | _            | ⊢  | ╀ |
| <u> </u>     | 32       | ╀        | -            | ┝  |  | ├—       | ┝        | -  | -  | <del> </del> | ł    | <u> </u>    | 83       | $\vdash$        |        |          |              | -            |  | ╀ |
|              | 33       | ∔-       | <del> </del> | <del> </del>                                     | <u> </u>   | -        | -        | $\vdash$   | -  |              |      | <u> </u>    | 84       | $\vdash$        |        |          | -            | ⊢            | ├-   | ╁ |
|              | 34       | +        | ╀            | -  | -  | $\vdash$ | ⊢        | ├—   | $\vdash$   | $\vdash$     | 1    | <del></del> | 85       | $\vdash \vdash$ |        | $\vdash$ | -            | $\vdash$     | -  | ╁ |
| <u> </u>     | 35<br>36 | +        | +            | ⊢  | ⊢  | -        | -        | $\vdash$   | <del> </del>                                     | $\vdash$     | l    |             | 86       | $\vdash$        |        | $\vdash$ | <del> </del> | -            | ╁  | t |
| $\vdash$     | 37       | +-       | +-           | ├  | ┢  | -        | -        | <del> </del>                                     | -  | ┢            | ·    | <u> </u>    | 87       | H               |        | -        | -            | -            | $\vdash$   | t |
| -            | 38       | ╁        | +            | $\vdash$   | $\vdash$   | $\vdash$ | $\vdash$ |  | ╁  | $\vdash$     | ł    |             | 88       | Н               |        | $\vdash$ | $\vdash$     | $\vdash$     | <del>                                     </del> | t |
| $\vdash$     | 39       | +        | +            | $\vdash$   | -  | -        | -        |  | $\vdash$   | ⊢            | 1    | <u> </u>    | 89       | $\vdash$        |        |          | -            | <del> </del> | <del>                                     </del> | t |
| <del>-</del> | 40       | -        | ╁            | $\vdash$   | $\vdash$   | ╁        | $\vdash$ | $\vdash$   |  | -            |      |             | 90       | Н               |        | $\vdash$ | $\vdash$     | $\vdash$     | ┢  | t |
| $\vdash$     | 41       | ╁        | +            | t  | +  | +        | t        | H  | 1  | <del> </del> | 1    | $\vdash$    | 91       | Н               |        | Ι-       | Т            | $\vdash$     | <del>                                     </del> | t |
| $\vdash$     | 42       | ╁        | $\vdash$     | $\vdash$   | ╁╌   | t-       | $t^-$    | $\vdash$   | -  | $\vdash$     | i    |             | 92       | H               |        |          |              | $\vdash$     | $\vdash$   | t |
| <del></del>  | 43       | ╁        | +-           | +-   | $\vdash$   | t        | t        | $\vdash$   | $\vdash$   | $\vdash$     | 1    | <u> </u>    | 93       | Н               | _      | $\vdash$ | $\vdash$     | 1            | $\vdash$   | t |
| <b> </b>     | 44       | $\top$   | T            | <del>                                     </del> | T  |          | t        | <del>                                     </del> | Т  | $\vdash$     | 1    |             | 94       | Н               |        | Г        | Т            | T            | <del>                                     </del> | t |
|              | 45       | 1        | T            | $t^{-}$  | $t^-$  | t        | t        | $\vdash$   | 1  | Т            | 1    | $\vdash$    | 95       | П               |        |          | Т            | Т            | Т  | T |
| <b> </b>     | 46       | $\vdash$ | T            | T  | t  | Ħ        | $\vdash$ | $\vdash$   | T  | T            | 1    |             | 96       | П               |        | Г        | Т            | Г            | $\vdash$   | t |
|              | 47       | +        | 1            | T  | T  | 1        | 1        | Т  | T  | Г            | 1    | $\vdash$    | 97       | П               |        | Г        | <u> </u>     | $\vdash$     | Т  | T |
|              | 48       | T        | 1            | T  | <del>                                     </del> | 1        | 1        |  |  | <u> </u>     | 1    |             | 98       | П               |        | Г        |              | Т            | Π  | T |
|              | 49       | T        | T            | 1  | t  | $\vdash$ | $\vdash$ | Г  | $\vdash$   |              | 1    |             | 99       |                 |        | Г        |              | Г            | П  | T |
|              | 50       | $\top$   | $\top$       | T  | T  | t        | 1        |  | <del>                                     </del> | Т            | 1    | $\vdash$    | 100      | М               |        | Г        |              | Г            | $\vdash$   | T |
|              | 1,50     |          | •            | •  |  |          |          |  | ٠  |              | •    |             |          | _               |        | -        |              |              | _  | - |

| Claim    |                | Date     |          |              |                |          |          |          |              |              |  |  |
|----------|----------------|----------|----------|--------------|----------------|----------|----------|----------|--------------|--------------|--|--|
|          |                | T        |          |              |                |          |          |          |              |              |  |  |
| =        | Original       | L        | ı        |              |                |          |          |          |              |              |  |  |
| Final    | 흥              | i        | l        |              |                | l        |          |          |              |              |  |  |
| <u> </u> | 동              | i        |          |              |                | ı        |          |          |              |              |  |  |
|          | 1              | -        | - 1      |              |                | ļ        |          |          |              |              |  |  |
|          | 51<br>52<br>53 | $\neg$   | $\Box$   |              |                | $\neg$   |          |          |              |              |  |  |
|          | 52             | $\neg$   |          | _            |                | $\neg$   |          |          |              |              |  |  |
| $\vdash$ | 52             | $\dashv$ | $\dashv$ |              | -              | $\vdash$ | _        | _        |              | _            |  |  |
|          | 23             | -        | -        |              |                | -        | $\dashv$ | -        |              | _            |  |  |
|          | 54             |          |          |              |                | $\Box$   | _        | _        |              |              |  |  |
|          | 54<br>55       |          |          |              |                |          |          |          |              |              |  |  |
|          | 56             |          |          |              |                |          |          |          |              |              |  |  |
|          | 57             | $\neg$   |          |              |                |          |          |          |              |              |  |  |
|          | 58             | -        | $\neg$   | _            |                |          |          | $\neg$   |              |              |  |  |
| -        | 50             |          |          |              |                | -        | $\dashv$ | -        | -            |              |  |  |
|          | 59             |          |          |              |                |          | _        | _        |              |              |  |  |
|          | 60             | _        |          |              | !              |          |          |          |              |              |  |  |
|          | 61             |          |          |              |                |          |          |          |              |              |  |  |
|          | 62             | $\neg$   |          |              |                |          |          |          |              |              |  |  |
|          | 62<br>63       |          |          |              | _              |          |          |          | П            | _            |  |  |
| -        | 64             |          | -        |              | $\vdash$       | $\dashv$ | -        |          | -            |              |  |  |
|          | 04             |          | _        |              |                | -        | _        | _        | _            | _            |  |  |
| <u> </u> | 65             |          |          |              |                | Ш        |          | _        |              |              |  |  |
|          | 66             |          |          |              |                |          |          |          |              |              |  |  |
|          | 67             |          |          |              |                |          |          |          |              |              |  |  |
| _        | 68             | $\neg$   |          | _            |                |          |          | -        |              |              |  |  |
| <u> </u> | 69             | $\dashv$ | -        | _            |                |          | _        | _        |              |              |  |  |
|          | 09             | $\dashv$ |          |              | -              |          |          |          |              |              |  |  |
|          | 70             |          |          |              |                |          |          |          |              |              |  |  |
|          | 71             |          |          |              |                |          |          |          |              |              |  |  |
|          | 72             |          |          |              |                |          |          |          |              |              |  |  |
|          | 73<br>74       |          |          |              |                |          |          |          |              |              |  |  |
| <u> </u> | 74             |          |          | _            | $\vdash$       |          |          |          | _            |              |  |  |
|          | 75             | -        |          | _            | -              | Н        | -        |          | ⊢            |              |  |  |
| <u> </u> | 75             |          |          | <u> </u>     | _              | $\vdash$ |          |          |              |              |  |  |
| <u> </u> | 76<br>77       |          |          | _            |                |          |          |          | _            |              |  |  |
| 1        | 77             |          |          |              |                |          |          |          |              |              |  |  |
|          | 78             |          |          |              |                |          |          |          |              |              |  |  |
|          | 79             |          |          |              |                |          |          |          |              |              |  |  |
| <b>—</b> | 80             |          | _        |              | $\vdash$       | $\vdash$ | _        |          | $\vdash$     |              |  |  |
| <b>-</b> | 00             | -1       |          |              | ⊢              |          | _        |          | ⊢            |              |  |  |
|          | 81             |          |          |              | _              | ш        |          |          | <u> </u>     |              |  |  |
|          | 82<br>83       |          |          |              | L              | <u> </u> |          |          | <u></u>      |              |  |  |
|          | 83             |          | Ī        |              | 1              |          |          | L        |              |              |  |  |
|          | 84             |          |          |              |                |          |          |          |              |              |  |  |
|          | 84<br>85       |          |          | $\vdash$     |                |          |          | _        | 1            | Ι            |  |  |
| -        | 86             |          |          | $\vdash$     | ┢┈             | H        | -        | _        | -            | $\vdash$     |  |  |
| -        | 00             | $\vdash$ |          | ├            | <del> </del> — | -        | _        |          | ⊢            |              |  |  |
|          | 87             | Ш        |          | <u> </u>     | <u> </u>       | $\vdash$ | <u> </u> | _        | <del>-</del> | <u> </u>     |  |  |
| L        | 88             | ·        |          | <u></u>      | <u></u>        |          |          |          |              |              |  |  |
|          | 89             |          |          |              |                |          |          |          |              |              |  |  |
|          | 90             |          |          |              |                |          |          |          |              |              |  |  |
| $\vdash$ | 91             | Н        |          | Η-           | T              | $\vdash$ | <u> </u> | $\vdash$ |              | T            |  |  |
| <b>—</b> | 92             | -        | <u> </u> | -            | -              | -        | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$     |  |  |
| <u> </u> |                | Н        | <u> </u> | <del> </del> | ₩              | -        | $\vdash$ | <u> </u> | $\vdash$     | $\vdash$     |  |  |
| <u> </u> | 93             | L.,      | L_       | <u> </u>     | <b>!</b>       | <u> </u> | <u> </u> |          | <u> </u>     |              |  |  |
| L        | 94             | L        | L        | L            | L              | L        | L        | L        | L            | L            |  |  |
| . [      | 95             |          |          |              |                |          |          |          |              |              |  |  |
|          | 96             |          |          | Г            | Т              | Г        | Г        | Г        |              | Г            |  |  |
| <b>-</b> | 97             |          | $\vdash$ | $\vdash$     | <del> </del>   | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$     |  |  |
| <b> </b> |                | -        | $\vdash$ | ⊢            | ├-             | $\vdash$ | ├-       | $\vdash$ | ├            | ├-           |  |  |
| <u> </u> | 98             |          |          | <u> </u>     | L_             | <u> </u> | $\vdash$ | <u> </u> | <b>⊢</b>     | <u> </u>     |  |  |
|          | 99             |          |          | 乚            | $oxed{oxed}$   | L        | <u> </u> | L        | _            | $oxed{oxed}$ |  |  |
|          | 100            |          |          |              |                |          | i        |          |              |              |  |  |

| Claim        |  | Date   |  |  |              |  |  |  |  |                 |  |
|--------------|--|--|--|--|--------------|--|--|--|--|-----------------|--|
|              |  | 1  | .  |  | T            |  |  |  | T  | $\dashv$        |  |
| <del>_</del> | na                                     |  |  |  |              |  |  |  |  |                 |  |
| Final        | Original                               |  | -  |  |              |  |  |  |  |                 |  |
| _            | Ō                                      |  | -  |  |              |  |  |  |  |                 |  |
|              | 101                                    | _  |  | $\neg$   | _            | _  |  |  |  | $\neg$          |  |
|              | 101<br>102                             |  |  | _  |              |  |  |  | $\dashv$   | ᅥ               |  |
|              | 103                                    |  |  |  |              |  | _  | -  | $\dashv$   | ᅱ               |  |
|              | 104                                    |  |  | -  |              |  |  | _  |  | $\dashv$        |  |
|              | 104<br>105                             |  | _  |  |              |  |  | _  |  | $\dashv$        |  |
|              | 106                                    |  | _  |  |              |  | -  | _  |  | $\dashv$        |  |
|              | 107                                    |  |  |  |              |  |  | _  |  | $\dashv$        |  |
|              | 108                                    |  | _  |  |              | _  | -  |  |  | 一               |  |
|              | 109                                    |  |  |  |              |  | Н  |  | -  | ヿ               |  |
|              | 109<br>110                             | Н  |  |  |              | _  | _  |  | Н  | $\neg$          |  |
|              | 111                                    |  |  | _  |              |  |  |  |  |                 |  |
|              | 112                                    |  |  |  |              | ┢  | -  |  |  |                 |  |
|              | 112<br>113                             |  |  |  |              |  |  |  | $\vdash$   | -               |  |
|              | 114                                    | Н  |  |  | $\vdash$     | $\vdash$   |  |  | $\vdash$   |                 |  |
|              | 115                                    | -  |  |  |              | -  | _  |  |  | $\neg$          |  |
|              | 115<br>116                             | $\vdash$   | _  |  |              | $\vdash$   | -  |  |  | $\dashv$        |  |
|              | 117                                    |  |  | $\vdash$   | H            | H  | H  |  |  | $\neg$          |  |
|              | 118                                    | $\vdash$   |  |  | $\vdash$     | $\vdash$   | $\vdash$   |  |  | $\neg$          |  |
|              | 118<br>119                             |  |  | _  |              |  | -  | _  |  |                 |  |
|              | 120                                    |  |  |  |              |  |  |  |  |                 |  |
|              | 121                                    | $\vdash$   |  |  |              |  |  |  |  |                 |  |
|              | 120<br>121<br>122<br>123<br>124<br>125 | $\vdash$   |  |  | $\vdash$     | -  | -  |  |  | _               |  |
|              | 123                                    |  |  | _  | _            |  |  |  |  | $\neg$          |  |
|              | 124                                    |  |  |  |              | ┝  |  |  |  | $\dashv$        |  |
|              | 125                                    | -  |  |  | _            | _  | <del> </del>                                     |  |  | $\dashv$        |  |
|              | 126                                    | $\vdash$   | _  | -  | -            | ┢  | $\vdash$   |  |  | Н               |  |
|              | 127                                    |  |  |  | $\vdash$     | ┝  | ┢  |  |  |                 |  |
|              | 126<br>127<br>128                      |  |  |  |              | -  | ┢╾   | _  | $\vdash$   | $\dashv$        |  |
|              | 129                                    |  |  | <u> </u>   |              | ┝  |  |  | $\vdash$   | $\dashv$        |  |
|              | 130                                    | -  |  | $\vdash$   | $\vdash$     | -  | -  |  | H  |                 |  |
|              | 129<br>130<br>131                      | <del>                                     </del> | <del> </del>                                     | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$   |  |  | H               |  |
|              | 132                                    | $\vdash$   | $\vdash$   | $\vdash$   | <u> </u>     |  | <del>                                     </del> | $\vdash$   | H  | H               |  |
| -            | 132<br>133                             | -  | $\vdash$   | $\vdash$   |              | <del> </del>                                     |  | $\vdash$   | $\vdash$   | Н               |  |
|              | 134                                    | <del> </del>                                     | -  | $\vdash$   | $\vdash$     | $\vdash$   | <del> </del>                                     | <del>                                     </del> | $\vdash$   | $\vdash$        |  |
|              | 134<br>135                             | $\vdash$   | -  |  | $\vdash$     |  | $\vdash$   | -  | <del>                                     </del> | $\vdash \vdash$ |  |
|              | 136                                    |  | -  | $\vdash$   | T            | H  | $\vdash$   | -  | $\vdash$   | $\vdash \vdash$ |  |
|              | 137                                    | ┪  | $\vdash$   | -  | $\vdash$     | $\vdash$   |  |  | <del>                                     </del> | H               |  |
| -            | 137<br>138                             | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | H               |  |
| -            | 139                                    | $\vdash$   | $\vdash$   | ⊢  | <del> </del> | ┢  | $\vdash$   | $\vdash$   | -  | $\vdash \vdash$ |  |
|              | 140                                    | $\vdash$   | ├─   | $\vdash$   | $\vdash$     | <del>                                     </del> | -  | ┢  |  | $\vdash \vdash$ |  |
|              | 141                                    | <del> </del>                                     | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$   | t  | $\vdash \vdash$ |  |
|              | 142                                    | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$     | -  | $\vdash$   | <del> </del>                                     | $\vdash$   | Н               |  |
|              | 143                                    | $\vdash$   | <del>                                     </del> | $\vdash$   | $\vdash$     | $\vdash$   | <del>                                     </del> |  | H  | $\vdash \vdash$ |  |
|              | 144                                    | <del> </del>                                     | $\vdash$   | <del>                                     </del> | $\vdash$     | +-   | $\vdash$   | -  | $\vdash$   | Н               |  |
| _            | 145                                    | $\vdash$   | $\vdash$   | $\vdash$   | -            | 1  | -  | -  | $\vdash$   | $\vdash \vdash$ |  |
| _ `          | 146                                    | <del> </del>                                     | $\vdash$   | -  | $\vdash$     | 1  | <del> </del> —                                   | <del>                                     </del> | $\vdash$   | ${oxdot}$       |  |
|              | 147                                    |  | ├  | $\vdash$   | $\vdash$     | $\vdash$   | ├-   | $\vdash$   | $\vdash$   | $\vdash \vdash$ |  |
|              |  |  | ├  | $\vdash$   | $\vdash$     | $\vdash$   | $\vdash$   | -  | ⊢  | $\vdash \vdash$ |  |
|              | 148                                    | $\vdash$   |  | $\vdash$   | -            | <del> </del>                                     | ├—   | -  | ├—   | Н               |  |
|              | 149                                    | -  | ├  | -  | $\vdash$     | ⊢  |  | <del> </del>                                     | <del> </del>                                     | $\vdash\vdash$  |  |
|              | 150                                    | <u> </u>   | <u> </u>   | L  |              | ட  | L  |  | <u> </u>   | Ш               |  |